



# 7th Grade Daily Warm-Up

## Day 1



### Number and Number Sense

1. What is the greatest common factor of 36, 42, and 48? (SOL 6.3a)

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### Computation and Estimation

2. Which number represents an improper fraction? (SOL 6.6a)

F  $\frac{16}{14}$       G  $2\frac{3}{8}$   
H 3.75      J 7



### Measurement and Geometry

3. 5 

What is the area of the square above? (SOL 6.11)

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### Probability and Statistics

4. Find the lower quartile for the quiz scores. (SOL 6.18c)

3	7	7	11	12	12	13
13	13	15	16	16	16	17
17	18	19	20	20		

\_\_\_\_\_



### Patterns, Functions, and Algebra

5. What are the next two terms in the pattern? (SOL 6.21)

10, 15, 21, 28, \_\_\_\_\_, \_\_\_\_\_



# 7th Grade Daily Warm-Up

## Day 2



### Number and Number Sense

1. Forty is the least common multiple of:

(SOL 6.3a)

- F 4 and 10      H 2 and 20  
G 8 and 10      J 4 and 20



### Computation and Estimation

2. Write  $\frac{37}{15}$  as a mixed number. (SOL 6.6a)

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### Measurement and Geometry

3. A rectangle is 5.5 meters long and its perimeter is 20 meters, what is its width?

(SOL 6.11)

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### Probability and Statistics

4. Pam collected the following data:  
(SOL 6.18c)

45 58 31 81 46 52 42 38 40 72 75

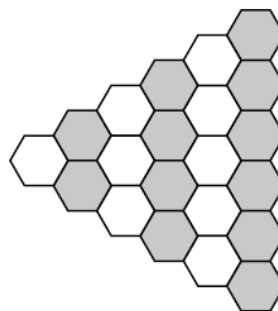
If Pam plots her data in a box-and-whisker plot, what would be the interquartile range?

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### Patterns, Functions, and Algebra

5.



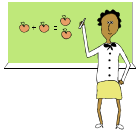
If the pattern in this figure continues, how many hexagons will be in the next column of shaded hexagons? (SOL 6.21)

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# 7th Grade Daily Warm-Up

## Day 3



### Number and Number Sense

1. Mrs. Jordan is replacing the tile on the wall in her bathroom. She places 3-in. tiles in the first row, 4-in. tiles in the second row, and 5-in tiles in the third row. At what point will all three tiles be lined up?

(SOL 6.3 a)

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### Computation and Estimation

2. Find  $2\frac{7}{10} + 5\frac{3}{4}$

(SOL 6.6a)

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### Measurement and Geometry

3. Find the area of a triangle with a base of 42 in. and a height of 35 in.

(SOL 6.11)

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### Probability and Statistics

4.



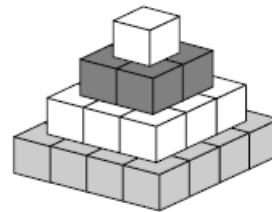
According to this circle graph, about what percent of the students chose football as their favorite sport? (SOL 6.18a)

- A 100%
- B 75%
- C 50%
- D 25%



### Patterns, Functions, and Algebra

5.



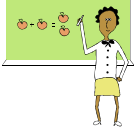
These layers of blocks form a pattern. If the pattern continues, how many blocks will be in the tenth layer? (SOL 6.21)

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# 7th Grade Daily Warm-Up

## Day 4



### Number and Number Sense

1. Which number is *not* composite?

(SOL 6.3b)

F 17

G 33

H 39

J 132



### Computation and Estimation

2. Find  $\frac{9}{10} - \frac{3}{4}$ .

(SOL 6.6a)

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### Measurement and Geometry

3. How many degrees are in a right angle?

(SOL 6.13b)

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### Probability and Statistics

4. At a deli, you have a choice of turkey, roast beef, or ham on your sandwich and a choice of potato chips or corn chips on the side. How many different ways can you order a sandwich and chips?

(SOL 6.20a)

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### Patterns, Functions, and Algebra

5. Which expression is equivalent to  $6^2$ ?

(SOL 6.22)

A  $6 \times 2$

B  $6 \times 6$

C  $2 \times 2 \times 2 \times 2 \times 2 \times 2$

D  $6 \times 6 \times 6 \times 6 \times 6 \times 6$



# 7th Grade Daily Warm-Up

## Day 5

1. 76, 79, 75, 77, 74

For the data listed, the value 76.2 represents the — (SOL 7.16)

- A median
- B mode
- C range
- D mean

2. What is the range of the numbers listed? (SOL 7.16)

76, 59, 91, 22, 43, 57, 89, 76, 31

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3. The data below shows the math test scores of 6 students in Ms. Brown's class.

Student	Grade
Taylor	94
Lynn	91
Luke	86
Becky	96
Trish	70
Bert	93

What is the mean grade of the students who took the test? (SOL 7.16)

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4. A magazine ad shows 5 video cameras on sale for \$499, \$895, \$679, \$1195, and \$1400. What is the mean price of the video cameras? (SOL 7.16)

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# 7th Grade Daily Warm-Up

## Day 6

1. During a summer reading program, Mary read 9 books. The books contained 217 pages, 138 pages, 159 pages, 356 pages, 270 pages, 112 pages, 138 pages, 210 pages, and 195 pages. What was the median number of pages of the 9 books that Mary read during the summer reading program? (SOL 7.16)

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2. Which statement is *false*? (SOL 7.16)

- A A set of data always has a mode.
- B A set of data may have exactly one mode.
- C A set of data may have more than one mode.
- D The mode is the piece of data that occurs most frequently.

13, 17, 0, 2, 13, 8,  
56, 23, 15, 42

3. What is the median of the data set above? (SOL 7.16)

\_\_\_\_\_

4. The data below shows the math test scores of 6 students in Ms. Brown's class.

Student	Grade
Taylor	94
Alicia	91
Luke	86
Ann	96
Taylor	70
Dwayne	93

What is the mean grade of the students who took the test? (SOL 7.16)

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# 7th Grade Daily Warm-Up

Day 7

Favorite Color		
Color	Tally	Frequency
red		3
blue		3
pink		2
yellow		4
orange	 	4

1. Using the frequency distribution above, which color is liked the *least*?  
(SOL 7.17a)
- \_\_\_\_\_

2. The total amount spent by a sample of customers at a book store is shown in the table below.

Total Dollars Spent					
24	18	9	36	45	
29	32	7	40	28	
5	41	8	28	25	

- Make a frequency table of the data above. (SOL 7.17a)

## Spiral Review

3. Matt recorded the morning temperature at 7:00 AM. every day for one week.

65°, 53°, 68°, 68°, 49°, 56°, 64°

What was the range of temperatures at 7 A.M.?

(SOL 7.16)

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# 7th Grade Daily Warm-Up

Day 8

1. A survey asked people, “How many movies have you seen in a theater this past year?” The results are shown below. (SOL 7.17a)

Movies Attended	Frequency
0-5	IIII
6-10	<del>IIII</del> IIII
11-15	I
16-20	II
21-25	IIII

Which statement below is true?

- A More than half of the people in the survey saw 6-10 movies.
- B Most people saw 20-25 movies that year.
- C At least half of the people saw more than 10 movies.
- D Less than half of the people surveyed saw more than 15 movies.

## Spiral Review

2. Find the mean, median, and mode of the following data set.

(SOL 7.16)

16, 22, 33, 25, 29, 32, 73, 20, 25

Mean: \_\_\_\_\_ Median: \_\_\_\_\_ Mode: \_\_\_\_\_

Which measure(s) of central tendency would be best to describe the data set from Number 3?

\_\_\_\_\_  
\_\_\_\_\_



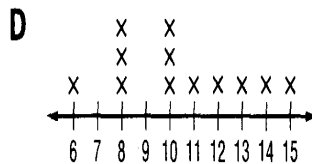
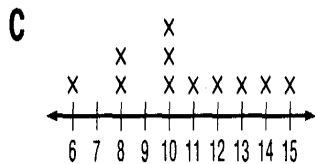
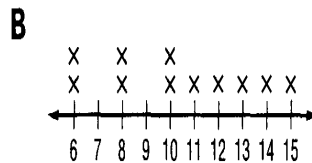
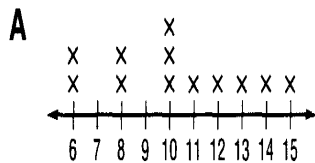


# 7th Grade Daily Warm-Up

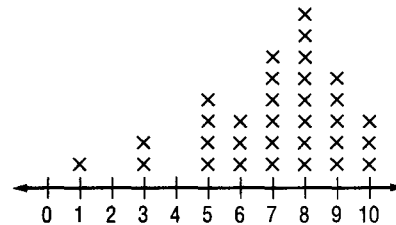
Day 9

1. Which line plot matches this set of data? (SOL 7.17 b)

6, 15, 14, 8, 10, 10, 13, 8, 12, 11, 10



2. The following line plot shows the shoe size of various students in the middle school.



How many students participated in the survey? (7.17b)

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## Spiral Review

3. Use the data presented in the table to answer the question.

Number of minutes spent watching TV	Number of Students
30	3
60	8
120	9

What is the *mean* number of minutes that the students watched television? (SOL 6.19)

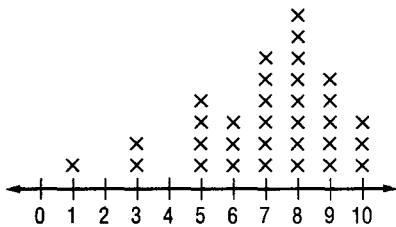
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# 7th Grade Daily Warm-Up

Day 10

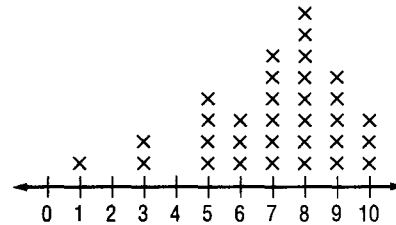
1. The following line plot shows the shoe size of various students in the middle school.



What is the median shoe size? (SOL 7.16)

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2. The following line plot shows the shoe size of various students in the middle school.



Which shoe size was three times the size of size 3? (SOL 7.16)

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## Spiral Review

3. Tim wants his mean (average) quiz score in history class to be 90. His first 3 quiz scores were 86, 92, and 94. What score should he make on the 4th quiz in order to have a mean (average) quiz score of exactly 90 ? (SOL 7.16)

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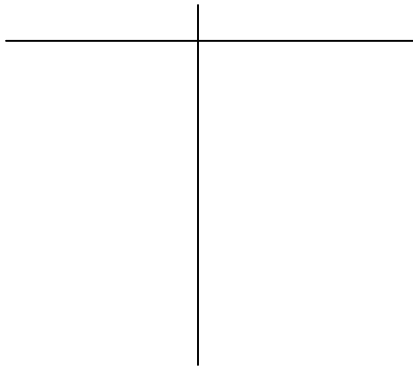
# 7th Grade Daily Warm-Up

Day 11

1. The ages of the teachers at Valley View Middle School are shown in the table below. Make a stem-and-leaf plot of the data.

(SOL 7.17d)

Age					
48	52	33	28	61	
38	32	34	43	46	
55	58	27	44	52	
31	40	55	36	60	



2. The stem-and-leaf plot shows scores from a gymnastics meet.

Stem	Leaf
1	0 0 1 8
2	5
3	3 5 8
4	1 3 4
Key:	
5	2 means 52

Which statement is *true* ? (SOL 7.16, 7.17d)

- F The mode is 1.
- G The highest score is 41.
- H The median is 35.
- J The range is 34.

# Spiral Review

15 shoppers at a grocery store spent the following amounts:

\$12.75 \$21.95 \$98.54 \$63.26 \$62.47  
\$39.62 \$79.67 \$170.62 \$121.27 \$15.43  
\$17.14 \$186.51 \$139.20 \$74.18 \$119.45

3. What is the mean of the data above? (SOL 7.16)

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# 7th Grade Daily Warm-Up

Day 12

1. The stem-and-leaf plot shows the number of days of school missed each year for a group of students. Find the range, median, and mode of the data. (SOL 7.16)

Stem	Leaf
0	3 4 5 5 8
1	0 0 2 4 4 4
2	1 1 3 6
3	4 $1 2 = 12 \text{ days}$

range: \_\_\_\_\_

median: \_\_\_\_\_

mode: \_\_\_\_\_

## Spiral Review

2. A school club listed the attendance at its weekly meetings as follows. Which statement is best supported by the data? (SOL 7.16)

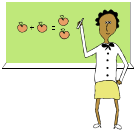
12, 9, 20, 15, 13, 8, 16, 12, 18, 10, 26, 14, 24, 17, 18

- A There is no mode.
- B There is only one mode.
- C There are only two modes.
- D There are three modes.



# 7th Grade Daily Warm-Up

## Day 13



### Number and Number Sense

1. What is the least prime number that is greater than 36? (SOL 6.3b)

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### Computation and Estimation

2. John is going to make three kinds of cookies.

He will need  $2\frac{1}{3}$  cups flour for the first kind,  $2\frac{1}{4}$  cups flour for the second kind, and  $3\frac{1}{3}$  cups flour for the third kind. How much flour does John need for all three kinds of cookies?

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### Measurement and Geometry

3. Which definition best fits an acute triangle? (SOL 6.13b)

- F One angle measures exactly 90 degrees
- G Two angles have the same measurement
- H the triangle has exactly one obtuse angle
- J All the measures are less than 90 degrees



### Probability and Statistics

4. There are 4 equal suits in a deck of cards- Hearts, Diamonds, Spades, and Clubs. What is the probability of drawing a spade? (SOL 6.20b)

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### Patterns, Functions, and Algebra

5. Look at the pattern in the table.

1	1
2	4
3	9
4	16

If this pattern continues, what is the value of the 8<sup>th</sup> term? (Sol 6.22)

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# 7th Grade Daily Warm-Up

## Day 14



### Number and Number Sense

1. What is the only even prime number?

(SOL 6.3b-c)

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### Computation and Estimation

2. Selina gave a pizza party. She invited five friends. She bought 3 pizzas. Each pizza had 8 slices. Selina and her guests each ate the same amount and finished all the slices. Which procedure could be used to find out how many slices each person ate? (SOL 6.8)

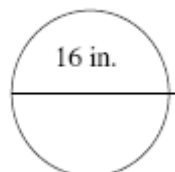
- A Multiply 3 times 8 and divide by 6
- B Add 3 plus 8 and divide by 6
- C Multiply 3 by 6 and divide by 8
- D Add 5 plus one and multiply by 3



### Measurement and Geometry

3. What is the circumference of the circle?

(SOL 6.12a)



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### Probability and Statistics

4. Several students went bowling after school. Their scores are shown in the frequency table. (SOL 6.18)

Score	Tally	Frequency
Under 100	I	6
100–109	II	7
110–119		12
120–129		5
130–139		3
Over 140		2

How many students went bowling?



### Patterns, Functions, and Algebra

5. What would be the value of the *seventh* term if the following pattern continues? (SOL 6.22)

$$10^1 = 10$$

$$10^2 = 100$$

$$10^3 = 1,000$$

$$10^4 = 10,000$$

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# 7th Grade Daily Warm-Up

## Day 15



### Number and Number Sense

1. Order the following set of numbers from least to greatest: 6,  $\frac{1}{3}$ , -45. (SOL 6.4)

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### Computation and Estimation

2. The table shows the regular prices for chicken breasts. Store B puts chicken breasts on sale, taking \$1.30 off the regular price. Which store has the least expensive chicken breasts? (SOL 6.8)

Store A	Store B	Store C	Store D
\$4.99	\$5.29	\$4.59	\$4.89

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### Measurement and Geometry

3. A circle has a diameter of 6 feet. The area of the circle is closest to – (SOL 6.12a)

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### Probability and Statistics

4. Make a frequency table for the data below. (SOL 6.18)

Speed (mph) of Cars

65	62	81	72	69	75
66	73	58	79	70	72
61	78	57	63	59	71



### Patterns, Functions, and Algebra

5. What is the  $x$  in  $4x + 5 = 8$ ? (SOL 6.23c)

- F term
- G variable
- H coefficient
- J equation



# 7th Grade Daily Warm-Up

## Day 16



### Number and Number Sense

1.  $43 \leq ?$

(SOL 6.4)

A - 41      B - 44      C 41      D 44



### Computation and Estimation

2. Write an equivalent fraction for  $\frac{4}{5}$

(SOL 6.4)

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### Measurement and Geometry

3. The field at Wilson Middle School is 300 feet long and 175 feet wide. In gym class, students warm up by jogging around the edges of the field twice.

What is the distance that they jog?

(SOL 6.11)

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### Probability and Statistics

4. Mrs. Jones recorded the following grades for the math test:

65, 100, 95, 85, and 70

What was the mean for this test? (SOL 6.19)

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### Patterns, Functions, and Algebra

5. Which of the following shows  $3 \times 3 \times 3 \times 3$  written in exponential notation?

(SOL 6.22)

F  $3^4$

G  $4^3$

H 12

J 81

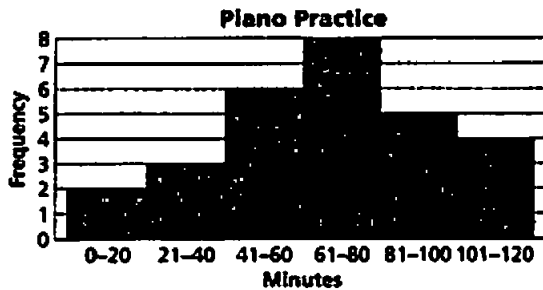




# 7th Grade Daily Warm-Up

## Day 17

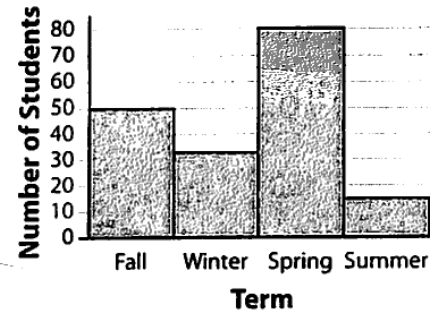
1. The histogram shows the minutes students spent during one week practicing the piano. (SOL 7.17c)



How many students are represented on the histogram? (SOL 7.17c)

\_\_\_\_\_

2. The histogram shows the number of students enrolled in each term at Smith College.



True or False: The number of students in the fall is over triple the number of students in the winter. Please explain your answer. (SOL 7.17c)

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\_\_\_\_\_

# Spiral Review

3. This is a stem-and-leaf plot of a group of test scores.

Stem	Leaf
0	3, 6, 7
1	3, 5, 9, 9
2	
3	0, 2, 4, 5
4	0, 1, 9
5	5, 7, 8, 9

What is the median score? (SOL 7.16)

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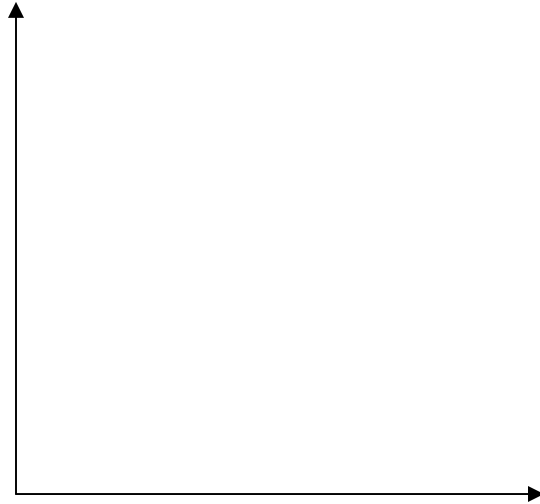


# 7th Grade Daily Warm-Up

**Day 18**

1. The ages at which people first got a driver's license have been organized into a frequency table. Make a histogram of the data. (SOL 7.17c)

Age	Frequency
10–19	16
20–29	11
30–39	3
40–49	1



## Spiral Review

2. In which data set is the median value equal to the mean value? (SOL 7.16)

- A. {2, 4, 6, 7, 8}
- B. {12, 18, 20, 23, 24}
- C. {16, 17, 18, 19, 20}
- D. {50, 60, 65, 75, 85}



# 7th Grade Daily Warm-Up

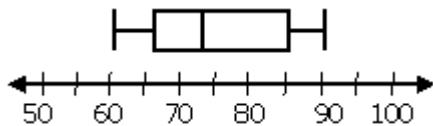
Day 19

1. The list shows the scores made by each member of Jemil's study group on the last test.

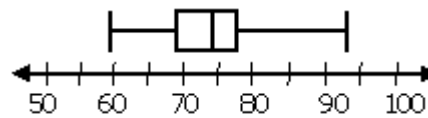
69 79 62 93 73 81 73 78

Which box and whisker plot best represents their scores?

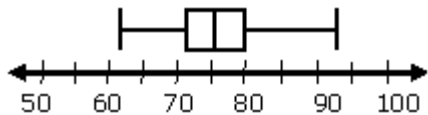
A



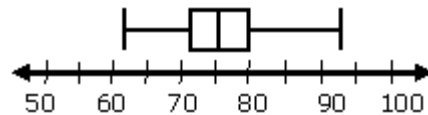
B



C



D



# Spiral Review

2.



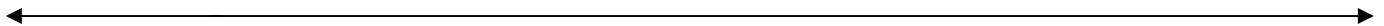
# 7th Grade Daily Warm-Up

Day 20

1. A music teacher asked each of her students how many minutes per day they practice. The data is shown in the table below. Make a box-and-whisker plot of the data.

(SOL 7.17e)

Minutes of Practice				
27	40	15	30	20
49	27	20	30	20
27	30	15	20	35



## Spiral Review

2. Isabella kept track of the amount of time spent on homework each night. She recorded the times in a table.

Day	Total Time (hr.)
Monday	2
Tuesday	1.25
Wednesday	2.5
Thursday	1.25
Friday	0.5

What is the range of time spent on homework for the week?

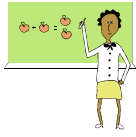
(SOL 7.16)

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# 7th Grade Daily Warm-Up

## Day 21



### Number and Number Sense

1. Complete the number sentence with

the proper sign  $\frac{2}{5}$   $\frac{3}{7}$  (SOL 6.4)

F <  
H  $\geq$

G >  
J =



### Computation and Estimation

2. It takes Joe four minutes to run a mile. At this pace how many miles can Joe run in an hour? (SOL 6.7)

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### Measurement and Geometry

3. How many pints are in 2 gallons? (SOL 6.9c)

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### Probability and Statistics

4. The number of electoral votes that the president received in the elections from 1972 to 2004 is listed below.

520, 297, 489, 525, 426, 370, 379, 271, 286

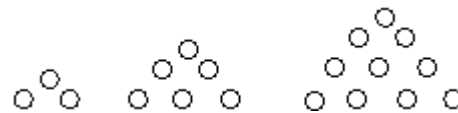
What is the range of the electoral votes received? (SOL 6.19)

\_\_\_\_\_



### Patterns, Functions, and Algebra

5. These figures form a pattern.



If the pattern continues, how many circles will be in the next figure? (SOL 6.22)

- A 5
- B 15
- C 16
- D 20



# 7th Grade Daily Warm-Up

## Day 22



### Number and Number Sense

1.  $\frac{4}{5}$  is equivalent to which fraction?  
(SOL 6.4)

A  $\frac{8}{15}$       B  $\frac{10}{15}$       C  $\frac{24}{30}$       D  $\frac{25}{30}$



### Computation and Estimation

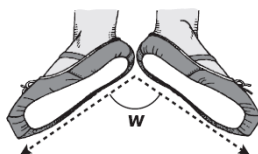
2. Sports: During the 2000 NHL play-offs, Mark Recchi of the Philadelphia Flyers had twice as many assists as goals. How many goals did he score if he has 12 assists?  
(SOL 6.7)

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### Measurement and Geometry

3. The picture shows a ballet dancer's feet in first position.  
(SOL 6.13a)



Which is most likely the measure for angle  $w$ , the angle formed by the dancer's feet?

- A  $65^\circ$   
B  $75^\circ$   
C  $115^\circ$   
D  $125^\circ$



### Probability and Statistics

4. Marty has the following scores in math for the first marking period.

72, 93, 88, 82, 67, 82

What is the *median* of his score?

(SOL 6.19)

\_\_\_\_\_



### Patterns, Functions, and Algebra

5. 2, 3, 5, 7, 11, 13, \_\_\_\_\_, \_\_\_\_\_

These numbers form a pattern. If the pattern continues, what will the ninth number be?  
(SOL 6.21)

\_\_\_\_\_



# 7th Grade Daily Warm-Up

Day 23

1. Evaluate.  $5 + (2^3 - 2) - 3 \cdot 2$  (SOL 7.2)

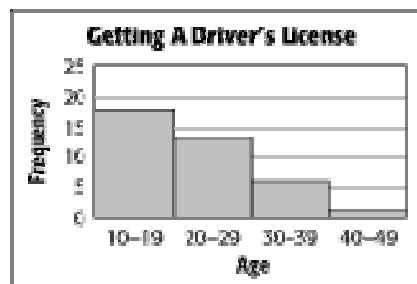
\_\_\_\_\_

2. What operation should be performed first when simplifying  $9(7 - 3) \div 2^2$ ? (SOL 7.2)

- A Addition
- B Division
- C Multiplication
- D Subtraction

## Spiral Review

3. The ages at which people first got a driver's license have been organized into a histogram. (SOL 7.17c)



About how many people get their driver's license between the ages of 10 and 39?

\_\_\_\_\_



# 7th Grade Daily Warm-Up

Day 24

1. Which of the following represents  $16 - 2(10 - 3)$  in simplified form? (SOL 7.2)

- A 2
- B 6
- C 12
- D 18

2. Simplify:  $24 - 6 \cdot 2 \div 2$  (SOL 7.2)

\_\_\_\_\_

## Spiral Review

3. Jorge made the following stem-and-leaf plot of the weights of the members of the football team he was coaching.

Stem	Leaf
10	9
11	
12	3, 8
13	2, 4, 4, 6, 8
14	1, 3, 5, 5, 9
15	2, 3, 7, 7, 9
16	1, 3, 7, 8, 8, 8, 9
17	3, 8

What was the mode of the weight of the players on the team? (SOL 7.16)

\_\_\_\_\_





# 7th Grade Daily Warm-Up

**Day 25**

1. Simplify:  $10 + 5 \cdot 2^3$  (SOL 7.2)

\_\_\_\_\_

2. Which of the following represents  
 $18 - (12 - 7)2$  in simplified form ?  
(SOL 7.2)

- A - 2
- B 8
- C 13
- D 18

## Spiral Review

3. What is the median for this set of data? (SOL 7.16)

{ 217, 243, 203, 206, 230, 195, 243 }

\_\_\_\_\_



## Day 26

**1. Which is *not* a true statement?**

(SOL 7.3)

**A**  $25 \div 5 = 5 \div 25$

**B**  $5.6 = 6.5$

**C**  $5(4+6) = 20 + 30$

**D**  $7+0=7$

**2. Which is an example of the associative property?** (SOL 7.3a)

(SOL 7.3a)

**F**  $4 \cdot 6 = 6 \cdot 4$

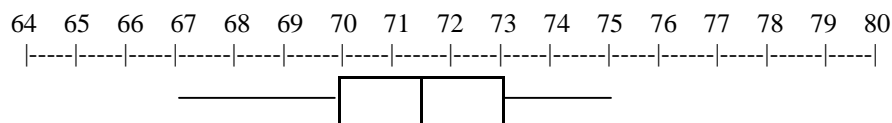
**G**  $6 + (4 + 7) = (6 + 4) + 7$

**H**  $6(4+5) = 24 + 30$

**J**  $7 + 0 = 7$

# Spiral Review

**3. Alberto made the box-and-whisker plot of the heights (in inches) of the members of his basketball team.**



### What is the range of heights of the team members?

(SOL 7.16)

---



# 7th Grade Daily Warm-Up

**Day 27**

**1. Which number sentence illustrates the commutative property of multiplication?** (SOL 7.3a)

- F**  $11 + (12 \cdot 3) = 12 + (11 \cdot 3)$
- G**  $11 + (12 \cdot 3) = 11 + (3 \cdot 12)$
- H**  $11 + (12 \cdot 3) = 11 \cdot 12 + 11 \cdot 3$
- J**  $11 + (12 \cdot 3) = (11 + 12) \cdot 3$

**2. What property is illustrated by the equation?** (SOL 7.3a)

$$7 + (8 + 9) = 7 + (9 + 8)$$

- A** Associative Property of Addition
- B** Commutative Property of Addition
- C** Distributive Property
- D** Identity Property of Addition

## Spiral Review

**3. When simplifying the expression, which operation must be performed first?**

$$16 - 8 \div 4 \cdot 2 + 6$$

- A** addition
- B** subtraction
- C** multiplication
- D** division



# 7th Grade Daily Warm-Up

Day 28

1.

$$\frac{1}{7} \cdot y = 1$$

If the number sentence is true, then  $y$  is the –

(SOL 7.3d)

- A additive   C multiplicative identity  
B additive   D multiplicative inverse

2. Which number sentence illustrates the multiplicative property of zero?

(SOL 7.3e)

- F  $3 \cdot 0 = 0$    H  $3(0 + 2) = 3 \cdot 0 + 3 \cdot 2$   
G  $5 + 0 = 5$    J  $0 \cdot 5 = 5 \cdot 0$

## Spiral Review

3. Carol went on a 5-day bicycle trip. She rode 23 miles the first day, 22 miles the second, 21 miles the third, 17 miles the fourth, and 17 miles the fifth day. What was the mean number of miles per day that Carol rode on her 5-day bicycle trip? (SOL 7.16)

---



# 7th Grade Daily Warm-Up

Day 29

1. What property would justify the following statement? (SOL 7.3a)

$$8x + 4 = 4 + 8x$$

\_\_\_\_\_

2. What property would justify the following statement? (SOL 7.3a)

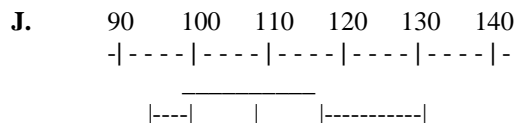
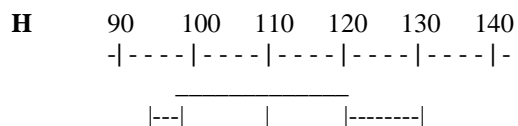
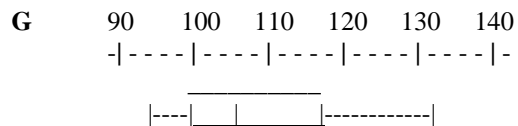
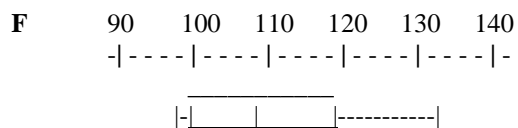
$$8 + (2 + 6) = (8 + 2) + 6$$

\_\_\_\_\_

## Spiral Review

3. 94 95 98 100 102 103 104 108  
111 116 117 117 122 127 131

Which box-and-whisker plot best represents the data displayed above? (SOL 7.17e)





## 7th Grade Daily Warm-Up

Day 30

1. Which statement demonstrates the distributive property **incorrectly**? (SOL 7.3b)

- A  $3(x + y + z) = 3x + 3y + 3z$
- B  $(a + b)c = ac + bc$
- C  $5(2 + 3x) = 10 + 3x$
- D  $6(3k - 4) = 18k - 24$

2. Which property would justify rewriting the following expression without parentheses?  $3(2x + 5)$ . (SOL 7.3b)

---

# Spiral Review

3. In which data set is the median value equal to the mean value?

(SOL 7.16)

- F {2, 4, 7, 9, 11}
- G {7, 9, 10, 11, 16}
- H {6, 12, 18, 24, 27}
- J {33, 40, 46, 52, 59}



# 7th Grade Daily Warm-Up

**Day 31**

1. Write an example of the multiplicative inverse property. (SOL 7.3d)

---

2. To find the product  $23 \times 5$ , Jose used the strategy:

$$(20 + 3) \times 5 = (20 \times 5) + (3 \times 5)$$

- This strategy is an example of which property? (SOL 7.3b)

---

## Spiral Review

3. Which group of numbers has a range of 21? (SOL 7.16)

**F** 17, 4, 19, 24, 20

**G** 7, 5, 4, 22, 7

**H** 24, 19, 6, 3, 21

**J** 21, 7, 25, 5, 3



## 7th Grade Daily Warm-Up

**Day 32**

1. Which equation shows the associative property of multiplication? (SOL 7.3d)

- A  $5 \cdot 1 = 5$
- B  $5 + (-3 + 6) = (5 + -3) + 6$
- C  $5(-3 \cdot 6) = 5(-3) \cdot 5(6)$
- D  $5 \cdot (-3 \cdot 6) = (5 \cdot -3) \cdot 6$

2. Write an example of the additive inverse property. (SOL 7.3d)

---

# Spiral Review

3. Which of the following represents  $11^2 + 18 - 3^3 \cdot 5$  in simplified form? (SOL 7.2)

- A - 3,236
- B 4
- C 107
- D 16,996





# 7th Grade Daily Warm-Up

## Day 33



### Number and Number Sense

1. Complete the number sentence with the proper sign  $-21$  \_\_\_  $-53$  (SOL 6.5)

F <  
H  $\geq$

G >  
J =



### Computation and Estimation

2. Dan works between  $\frac{3}{4}$  hour and  $2\frac{1}{2}$  hours after school Monday through Friday. If he is paid \$6.25 per hour, which is the *best* estimate of the amount he will earn in one month? (SOL 6.7)

\_\_\_\_\_



### Measurement and Geometry

3. How many ounces are in 9 pounds? (SOL 6.9b)

\_\_\_\_\_



### Probability and Statistics

4. In baseball, Luke had 4 hits in his last 12 times at bat. (SOL 6.20B)

What is the probability that he will get a hit in his next at bat.

\_\_\_\_\_



### Patterns, Functions, and Algebra

5. This table shows Mr. Smith's car insurance cost for the next 4 years.

Year 1	Year 2	Year 3	Year 4
\$590	\$635	\$680	\$725

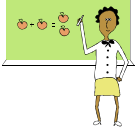
If the pattern continues, what will Mr. Smith pay for car insurance in year 7? (SOL 6.21)

\_\_\_\_\_



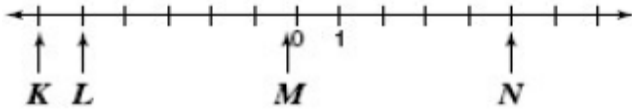
# 7th Grade Daily Warm-Up

## Day 34



### Number and Number Sense

1. Which arrow shows the location of -6 on the number line? (SOL 6.5)



\_\_\_\_\_



### Computation and Estimation

2. Write  $28/13$  as a mixed number. (SOL 6.6a)

\_\_\_\_\_



### Probability and Statistics

4. Nate has a bag containing 3 red, 2 blue, 4 yellow, and 3 green marbles. If he randomly chooses one marble from the bag, what is the probability that the marble will be blue? (SOL 6.20B)

\_\_\_\_\_



### Patterns, Functions, and Algebra

5. In this equation, what does y equal?

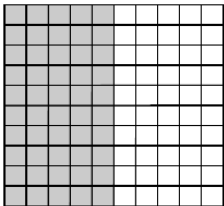
$$y \div 3 = 9$$

- A 3      C 27  
B 12     D 30



### Measurement and Geometry

3.



The shaded part of the grid represents all of these *except* — (SOL 6.1)

\_\_\_\_\_

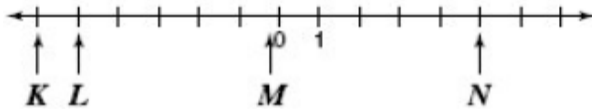


# 7th Grade Daily Warm-Up

## Day 35



### Number and Number Sense



1. Using the number line above, which arrow shows the location of 5? (SOL 6.5)

\_\_\_\_\_



### Computation and Estimation

2. Solve  $q = 6\frac{3}{4} \div 2\frac{5}{12}$  (SOL 6.6a)

\_\_\_\_\_



### Measurement and Geometry

3. Susan wanted to make a frame for a picture she drew for her mother. Which of these would she need to find to make a frame for the picture? (SOL 6.11)

- A Perimeter      C Area  
B Volume      D Surface area



### Probability and Statistics

4. In a random sample of 250 light bulbs, 5 were found to be defective. (SOL 6.20B)

If the company produces 5,000 light bulbs, how many do you predict will be defective?

\_\_\_\_\_



### Patterns, Functions, and Algebra

5. Look at this equation.

$$5x + 1 = 26$$

The coefficient in this equation is —

\_\_\_\_\_



# 7th Grade Daily Warm-Up

## Day 36



### Number and Number Sense

1. What is the Least Common Multiple of 3 and 9?

(SOL 6.3a)

\_\_\_\_\_



### Computation and Estimation

2. Martha drove 410 miles and used 19.6 gallons of gas. About how many miles per gallon did Martha get? (SOL 6.7)

\_\_\_\_\_



### Measurement and Geometry

3.  $\frac{20}{7}$

What are the perimeter and the area of the rectangle above? (SOL 6.11)

\_\_\_\_\_



### Probability and Statistics

4. 76, 79, 75, 77, 74

For the data listed, the value 76.2 represents the-

(SOL 6.19)

- A mean
- B median
- C mode
- D range



### Patterns, Functions, and Algebra

5. Based on the geometric pattern shown, what is the value of  $6^7$ ? (SOL 6.22)

$$6^1 = 6$$

$$6^2 = 36$$

$$6^3 = 216$$

$$6^4 = 1,296$$

\_\_\_\_\_



# 7th Grade Daily Warm-Up

Day 37

1. Order the following integers from least to greatest. (SOL 7.5)

-25   6   -10   -14   -1   4

\_\_\_\_\_

2. Which integer is the *least*? (SOL 7.5)

-9,   -12,   0,   8

\_\_\_\_\_

## Spiral Review

3. The weights of boxes packed for shipping are shown in the stem-and-leaf plot below.

Weights of Boxes

Stem	Leaf
2	2 5 7 8
3	0 3 3 5 6
4	0 1 5 7
5	2 3 4 5 6
6	0 1

Key: 2|0 means 20 pounds

How many boxes weigh more than 45 pounds?

(SOL 7.17d)

\_\_\_\_\_



# 7th Grade Daily Warm-Up

Day 38

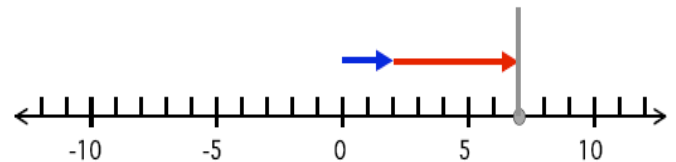
1. Which integer is less than  $-55$ ?

(SOL 7.5)

- A 56
- B -56
- C -51
- D 0

\_\_\_\_\_

2. This graph shows addition of two integers.



Which of the equations below is represented by the graph? (SOL 7.5)

- F  $2 + 5 = 7$
- G  $3 + 4 = 7$
- H  $(-1) + 8 = 7$
- J  $6 + 1 = 7$

## Spiral Review

3. Which property is used in the following number sentence?

$$4(3 + n) = (4 \cdot 3) + (4 \cdot n)$$





# 7th Grade Daily Warm-Up

Day 39

1. Which expression will result in a negative number?

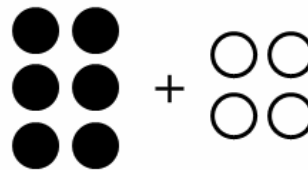
(SOL 7.5)

- A  $7 + (-5)$    C  $(-2) + 4$   
B  $1 + (-1)$    D  $(-3) + 2$

Key	 = 1
	 = -1

2.

Using the key as a guide, what is the result of the operation shown? (SOL 7.5)



\_\_\_\_\_

## Spiral Review

3. Which is false?

- A  $-62 + 123 = 123 + -62$   
B  $-5 \cdot (-35 + 42) = (-5 \cdot -35) + (-5 \cdot 42)$   
C  $(-891 + 345) - -78 = -891 + (345 - -78)$   
D  $35 \div (-30 + 37) = (-35 \div -30) + (-35 \div 37)$



# 7th Grade Daily Warm-Up

Day 40

1. The change in the number of students enrolled at a school over six months is shown in the following table.

School Enrollment	
Month	Change
October	-15
November	8
December	3
January	-12
February	3
March	11

The number of students enrolled at the end of September was 4,327. What was the number of students enrolled in the school at the end of March? (SOL 7.5)

- A 4,275  
C 4,325

- B 4,300  
D 4,352

## Spiral Review

2. Look at the table.

Kites Sold for  
School Fundraiser

Year	Number Sold
1	650
2	780
3	540
4	680
5	690

What is the median number of kites sold per year? \_\_\_\_\_





## 7th Grade Daily Warm-Up

**Day 41**

1. Dave was hiking on a trail that took him to an altitude that was 15 miles below sea level. Susan hiked to an altitude that was 8 miles above Dave. What was the final altitude for Susan's hike?

(SOL 7.5)

\_\_\_\_\_

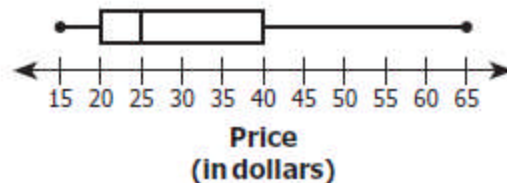
2. On a particular day in the desert, the low temperature was  $-3^{\circ}\text{F}$  and the high temperature was  $51^{\circ}\text{F}$ . Find the range of temperatures.

(SOL 7.5)

\_\_\_\_\_

# Spiral Review

3. The Augusta City Chamber of Commerce computed the average dinner price for two at several area restaurants.



What is the lower quartile of the box-and-whisker plot?

\_\_\_\_\_



## 7th Grade Daily Warm-Up

Day 42

1. Evaluate  $mnp$  if  $m = -2$ ,  $n = -5$ , and  $p = -4$ .

(SOL 7.5)

\_\_\_\_\_

2. Suppose the temperature today in Cleveland, Ohio is  $18^{\circ}\text{F}$ . Use the expression , where  $F$  represents the number of degrees Fahrenheit, to find the temperature in Cleveland in degrees Celsius.

(SOL 7.5)

\_\_\_\_\_

# Spiral Review

3. Which of the following equations illustrates the multiplicative property of zero?

- A  $10(8+0) = 10 \cdot 8 + 10 \cdot 0$
- B  $10(15 \cdot 0) = 10(0 \cdot 15)$
- C  $10 + (-10) = 0$
- D  $10 \cdot 0 = 0$



# 7th Grade Daily Warm-Up

**Day 43**

1. Multiply  $(-7)^2$ .

(SOL 7.5)

\_\_\_\_\_

2. Evaluate the following problems:

(SOL 7.5)

A)  $-14 - 5$  \_\_\_\_\_

B)  $-18 + (-21)$  \_\_\_\_\_

C)  $6 + (-3)$  \_\_\_\_\_

## Spiral Review

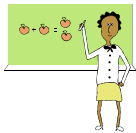
3. Brian wants his mean (average) quiz score in science class to be 90. His first 3 quiz scores were 86, 92, and 94. What score should he make on the 4th quiz in order to have a mean (average) quiz score of exactly 90?

\_\_\_\_\_



# 7th Grade Daily Warm-Up

## Day 44



### Number and Number Sense

1. What is the greatest common factor of 12, 24, and 36? (SOL 6.3a)

\_\_\_\_\_



### Computation and Estimation

2.

\_\_\_\_\_



### Measurement and Geometry

3.

\_\_\_\_\_



### Probability and Statistics

4. At Prospect Heights Middle School, 3 out of 5 students make honor roll. What is the probability that a student *does not* make honor roll? (SOL 6.20b)

\_\_\_\_\_



### Patterns, Functions, and Algebra

5.

\_\_\_\_\_



# 7th Grade Daily Warm-Up

## Day 45



### Number and Number Sense

1. Which set of numbers are odd integers? (SOL 6.3c)

- A 1, 3, 4
- B 1, 3, 5
- C 2, 4, 5
- D 2, 4, 6



### Computation and Estimation

2.

\_\_\_\_\_



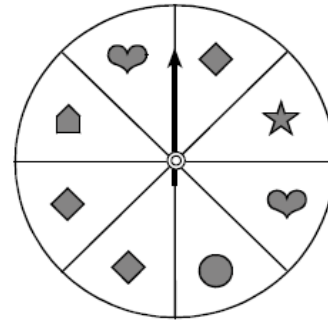
### Measurement and Geometry

3. A rectangular football field is 120 yards long and 53.3 yards wide. How far is it around the football field?



### Probability and Statistics

4. What is the probability that this fair spinner will land on a heart? (SOL 6.20b)



\_\_\_\_\_



### Patterns, Functions, and Algebra

5.

\_\_\_\_\_



# 7th Grade Daily Warm-Up

## Day 46



### Number and Number Sense

1.  $-1$  is  $\leq$  ?

(SOL 6.5)

A  $-24$   
C  $-3$

B  $-1000$   
D  $1$



### Computation and Estimation

2. Which expression has the same solution as

$$\frac{1}{6} \div \frac{3}{10} ?$$

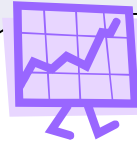
(SOL 6.6a)

A  $\frac{1}{6} \times \frac{3}{10}$

B  $\frac{1}{6} \div 3\frac{1}{3}$

C  $6 \div 3\frac{1}{3}$

D  $6 \times \frac{3}{10}$



### Probability and Statistics

4. You are trying to decide which pizza to order from dinner. Your choices for crust are: regular, thin, and cheese stuffed. You only want one topping and will either choose pepperoni or mushroom.

Draw a tree diagram to show the sample space of the possibilities you have from which to choose one crust with one topping. (SOL 6.20a and 6.8)



### Patterns, Functions, and Algebra

5.



### Measurement and Geometry

3.

\_\_\_\_\_

\_\_\_\_\_



# 7th Grade Daily Warm-Up

Day 47

## Spiral Review

1. Which list orders the integers from *least to greatest*? (SOL 7.5)

A  $\{-8, -9, 11, 12\}$

B  $\{-9, -8, 12, 11\}$

C  $\{11, 12, -9, -8\}$

D  $\{-9, -8, 11, 12\}$

3. What is the rule for subtracting integers? (SOL 7.5)

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2. The table shows the number of cassette tapes sold by a store each day last week.

Day	Number of Tapes Sold
Sunday	84
Monday	75
Tuesday	64
Wednesday	50
Thursday	66
Friday	84
Saturday	87

What was the *mean* for this set of data? (SOL 7.16)

---



# 7th Grade Daily Warm-Up

Day 48

## Spiral Review

1. Cheung has been observing the number of students who use the library during their study hall. From her observations, she constructed this frequency distribution. Which statement summarizes Cheung's observations?

(SOL 7.17 a)

Study Hall Period	Tally	Frequency
1		4
2		6
3		3
4		1
5		2
6		1
7		9
8		13

- F** The library is busiest at the end of the day.  
**G** Not many students use the library during study hall.  
**H** The library is not a popular place.  
**J** The number of students using the library during study hall is evenly distributed throughout the day.

2. The table shows the number of cassette tapes sold by a store each day last week.

Day	Number of Tapes Sold
Sunday	84
Monday	75
Tuesday	64
Wednesday	50
Thursday	66
Friday	84
Saturday	87

What was the *range* for this set of data?

(SOL 7.16)

\_\_\_\_\_





# 7th Grade Daily Warm-Up

Day 49

1. Convert 0.2 to a fraction in lowest terms.

(SOL 7.1)

\_\_\_\_\_

2. Which percent is equal to  $\frac{9}{12}$ ? (SOL 7.1)

- A 58%
- B 60%
- C 75%
- D 85%

## Spiral Review

3. The set of numbers below shows the number of CDs sold by a store last week.

{84, 75, 64, 50, 66, 84, 87}

a) What was the *median* for this set of data? (SOL 7.16)

\_\_\_\_\_

b) In this question, what does the median represent?

\_\_\_\_\_  
\_\_\_\_\_.



# 7th Grade Daily Warm-Up

## Day 50

1. Which correctly describes 0.75?

(SOL 7.1)

- A Less than 1%
- B Between 1% and 10%
- C Between 10% and 100%
- D Greater than 100%

2. Which correctly compares the numbers?

(SOL 7.1)

F  $52\% = \frac{2}{5}$

G  $\frac{1}{4} = 0.14$

H  $25\% = 2.5$

J  $\frac{9}{12} = 0.75$

## Spiral Review

3. This frequency table shows how many students in each homeroom ate pizza for lunch. In whose homeroom did the fewest number of students eat pizza? (SOL 7.17a)

Homeroom Teacher	Tally	Frequency	Cumulative Frequency
Mrs. Belvin	IIII	4	4
Mrs. Grubbs	I	1	5
Ms. Terrill	III	3	8
Mrs. Davis	IIII	4	12



## 7th Grade Daily Warm-Up

Day 51

1.  $\frac{2}{5}, \underline{\quad?}, \frac{5}{8}$

Which of these would replace the question mark so that the numbers are ordered from *least* to *greatest*? (SOL 7.1)

A  $\frac{1}{4}$

C  $\frac{1}{2}$

B  $\frac{3}{8}$

D  $\frac{4}{5}$

2. Sort these fractions from greatest to least. (SOL 7.1)

$$\frac{5}{6}, \frac{1}{4}, \frac{11}{12}, \frac{2}{3}$$

---

# Spiral Review

3. What property is illustrated by the equation?

(SOL 7.3a)

$$7 + (8 + 9) = 7 + (9 + 8)$$

- F Associative Property of Addition
- G Commutative Property of Addition
- H Distributive Property
- J Identity Property of Addition



## 7th Grade Daily Warm-Up

**Day 52**

1. Write the standard notation of  $3.798 \times 10^4$ . (SOL 7.1)

\_\_\_\_\_

2. Express 17 million in scientific notation. (SOL 7.1)

\_\_\_\_\_

# Spiral Review

3. If  $x = 3$ , what is the value of  $5x^2 + (19 - 4) \div x$ ? (SOL 7.2)

\_\_\_\_\_



## 7th Grade Daily Warm-Up

**Day 53**

1. A building in Virginia is made up of approximately  $2.7 \times 10^6$  square feet of office space. Which expression represents this number in standard form?

(SOL 7.1)

F 27,000

G 270,000

H 2,700,000

J 27,000,000

2. Mr. Heffernan stated that the circumference of Earth at the equator is 14,782.4 miles. Write the expression represents this number in scientific notation. (SOL 7.1)

\_\_\_\_\_

# Spiral Review

3. Lauren wanted the school store to buy pencils. They bought 315 pencils with the school logo imprinted on them and 400 pencils without the logo. What percent of the pencils had the school logo? (SOL 7.1)

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## 7th Grade Daily Warm-Up

Day 54

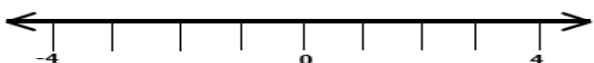
1. The table below gives the approximate 2004 populations of several cities in Virginia in scientific notation. Based on their populations, order the cities from greatest to least. (SOL 7.1)

City	Population
Hampton	$1.46 \times 10^5$
Newport News	$1.80 \times 10^5$
Richmond	$2.48 \times 10^4$
Charlottesville	$2.36 \times 10^4$

- A Newport News, Hampton, Richmond, Charlottesville
- B Richmond, Charlottesville, Newport News, Hampton
- C Charlottesville, Richmond, Hampton, Newport News
- D Newport News, Hampton, Charlottesville, Richmond

## Spiral Review

2. Which statement about the number line is true? (SOL 7.5)



- F -4 is greater than 0.
- G 4 is less than 0.
- H -4 and 4 are the same distance from 0.
- J 0 and 4 are positive integers.



# 7th Grade Daily Warm-Up Day 55

- 1. Arrange these numbers in order from *least* to *greatest*.** (SOL 7.1)

$$2.4 \times 10^3, 0.24, 50\%, \frac{1}{3}, 2.3 \times 10^2$$

# Spiral Review

- ## 2. A set of parentheses is missing from the expression

$$15 - 5 + 7 \cdot 2 + 4$$

**Which has the parentheses correctly placed for the expression to equal 52?**  
(SOL 7.2)

- A**  $15 - (5 + 7 \cdot 2) + 4$   
**B**  $15 - (5 + 7) \cdot 2 + 4$   
**C**  $15 - (5 + 7 \cdot 2 + 4)$   
**D**  $15 - 5 + 7 \cdot (2 + 4)$



## 7th Grade Daily Warm-Up

Day 56

1. Which shows the numbers in order from *least* to *greatest*. (SOL 7.1)

A  $7 \times 10^2$ , 0.007,  $\frac{7}{10}$ , 7%

B 0.007, 7%,  $\frac{7}{10}$ ,  $7 \times 10^2$

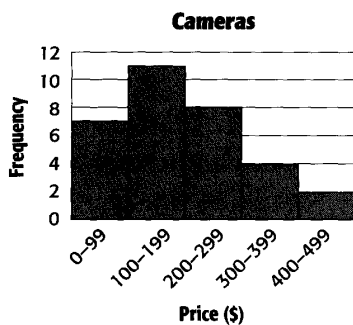
C  $7 \times 10^2$ ,  $\frac{7}{10}$ , 7%, 0.007

D  $\frac{7}{10}$ ,  $7 \times 10^2$ , 7%, 0.007

## Spiral Review

2. Which is not a true statement?

(SOL 7.17 c)



F Four cameras are priced from \$300—\$399.

G The mode of the data is \$100—\$199.

H The most expensive camera is \$499.

J There are 32 cameras in the data set.

3. Which statement is true about this set of data? (SOL 7.16)

15, 21, 12, 8, 25, 20, 18, 15, 11, 15

A The range is 17.

B The mean is 160.

C The median is 25.

D The mode is 25.





## 7th Grade Daily Warm-Up

Day 57

1. Drake is going to make three kinds of cookies. He will need

$$1 \frac{1}{3}$$

cups flour for the first kind,

$$1 \frac{1}{4}$$

cups flour for the sec-

ond kind, and  $2 \frac{1}{3}$  cups flour for the third kind. How much flour does Joseph need for all three kind of cookies? (SOL 7.4a)

\_\_\_\_\_

# Spiral Review

2. The total amount spent by a sample of customers at a book store is shown in the frequency table below.

Amount Spent in a Book Store		
Dollars	Tally	Frequency
0-9		4
10-19		1
20-29		5
30-39		2
40-49		3

Which interval had twice as many books sold as the 30 – 39 interval? (SOL 7.17)

\_\_\_\_\_



## 7th Grade Daily Warm-Up

Day 58

1. The art club ate  $1\frac{5}{8}$  of a cheese pizza and  $2\frac{2}{3}$  of a vegetable pizza. How much pizza did the art club eat in all? (SOL 7.4a)
- \_\_\_\_\_

# Spiral Review

2. Billy earned the following grades in math class.

99 85 88 94 87 85 93

Which data measure will give him the highest grade?

(SOL 7.16)

- A Mean
- B Mode
- C Range
- D Median



- ### How much water was left in the jug?

---

# Spiral Review

- $$\{11, 13, 18, 19, 22, 25, 29, 32, 37, 37, 38\}.$$



## 7th Grade Daily Warm-Up

Day 60

1. Solve  $q = 6\frac{3}{4} \div 2\frac{5}{12}$  (SOL 7.4a)

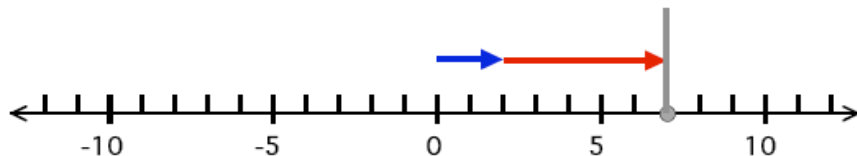
\_\_\_\_\_

2. Mackenzie is  $\frac{2}{5}$  of her father's age. Her father is 40. How old is Mackenzie? (SOL 7.4a)

\_\_\_\_\_

# Spiral Review

3. This graph shows addition of two integers.



Which of the equations below is represented by the graph? (SOL 7.5)

F  $2 + 5 = 7$

H  $(-1) + 8 = 7$

G  $3 + 4 = 7$

J  $6 + 1 = 7$



## 7th Grade Daily Warm-Up

**Day 61**

1. A CD that is regularly priced \$15.95 is on sale at a 25% discount. What is the sale price of the CD? (SOL 7.4b)

\_\_\_\_\_

2. An electronics store has portable CD players on sale for \$54.95. If the local sales tax is 6.5%, what is the total cost of a CD player? (SOL 7.4b)

A \$3.57

C \$58.52

B \$51.38

D \$58.78

# Spiral Review

3. The temperature in Alaska dropped 15 degrees overnight. If the previous night's temperature was  $-10$  degrees, what is the new temperature? (SOL 7.5)

\_\_\_\_\_



## 7th Grade Daily Warm-Up

**Day 62**

1. A basketball, originally priced at \$17, was on sale for 10% off. How much will a customer save by buying it at the sale price? (SOL 7.4b)

\_\_\_\_\_

2. Luke is buying a gift for his sister. The gift costs \$16.99, and the sales tax rate is 5%. What is the total cost Luke will pay for the gift? (SOL 7.4b)

\_\_\_\_\_

# Spiral Review

3. Which number sentence illustrates the commutative property of multiplication? (SOL 7.3a)

A  $14 + (13 \cdot 7) = 14 + (7 \cdot 13)$

B  $14 + (13 \cdot 7) = 13 + (14 \cdot 7)$

C  $14 + (13 \cdot 7) = 14 \cdot 13 + 14 \cdot 7$

D  $14 + (13 \cdot 7) = (14 + 13) \cdot 7$



## **7th Grade Daily Warm-Up**

**Day 63**

1. Brenna purchased lunch for her mother. The cost of the meal was \$23.55. How much money should Brenna leave as a tip if she plans to tip 20%? (SOL 7.4b)

# **Spiral Review**

2. Brandon used 3 out of 5 cans of paint to paint his bedroom. What percent of the cans of paint did he use? (SOL 7.1)



## 7th Grade Daily Warm-Up

Day 64

1. The Martin's bill at a restaurant was \$54.00. What was the total amount of money paid if they left a 20% tip? (SOL 7.4b)

\_\_\_\_\_

2. The Grubbs' bill at a restaurant is \$45.00. How much money should Mr. Grubbs leave as a tip if he plans to tip 15%? (SOL 7.4b)

A \$2.16

C \$17.24

B \$4.31

D \$25.86

# Spiral Review

3. The table below shows the number of babysitting jobs Alexis and her friends had last month.

Name	Number of Jobs
Millie	13
Jean	7
Susan	8
Andria	8

What was the *mode* number of babysitting jobs Alexis and her friends had last month? (SOL 7.16)

\_\_\_\_\_





## 7th Grade Daily Warm-Up

Day 65

1. Damian put \$250 in a savings account at an annual interest rate of 3%. If Damian does not deposit or withdraw any money, what is the amount of interest Damian will earn at the end of six months? (SOL 7.4b)

\_\_\_\_\_

2. Steve deposited \$1,250 into his savings account. The account earns an annual interest rate of 3%. How much interest will Steve earn after his money has been in the account for one year? (SOL 7.4b)

- A \$37.50
- B \$300.00
- C \$375.00
- D \$950.00

# Spiral Review

3. The table below shows the distance Frank walked over a period of three days. According to the table, what is the total distance Frank walked for the three days? (SOL 7.4a)

Day	Distance (in miles)
Mon.	$\frac{3}{4}$
Tue.	$1\frac{1}{2}$
Wed.	$\frac{2}{3}$



## 7th Grade Daily Warm-Up

**Day 66**

1. Christian put \$4,000 into a savings account with a simple interest rate of 8%. How much interest did he earn over the course of 2 years?

(SOL 7.4b)

---

2. Sharon borrowed \$1,480 to buy a new computer. She is going to pay the money back in 4 years at 3% simple interest. How much interest will Sharon pay altogether?

(SOL 7.4b)

---

# Spiral Review

3. Tafari has  $\frac{3}{4}$  of a cake he wants to divide evenly among 4 friends. If he divided the cake evenly, what fraction of the whole cake would each friend get?

(SOL 7.4a)

---



## 7th Grade Daily Warm-Up

**Day 67**

1. Max surveyed students on his website and asked each to select 1 favorite after-school activity. The percents of the total number of students who responded for each activity are shown in the table.

Max's Survey Results

Activity	Percent
Watching movies	18
Roller skating	10
Listening to music	15
Shopping	14
Basketball	9
Reading	6
Playing games	28

If 126 students selected watching movies, how many total students responded to Max's survey? (SOL 7.4a)

# Spiral Review

2. Alex works 20 hours per week. Usually he spends  $\frac{1}{2}$  of her time answering the phone and talking to customers. This week he spent an extra  $\frac{1}{8}$  of his time answering the phone and talking to customers. How long did he spend on those tasks this week? (SOL 7.4a)
-



## 7th Grade Daily Warm-Up

**Day 68**

1. Evaluate each expression if  $a = 3$ ,  $b = 7$ , and  $c = 4.2$  (SOL 7.2)

A)  $3b - 2.8 \times 3^3$

B)  $4(c - 1)$

# Spiral Review

2.  $8(4+2)=32+16$  is an example of which property? (SOL 7.3b)

- A Additive Identity
- B Distributive Property
- C Commutative Property of Addition
- D Associative Property of Addition



# 7th Grade Daily Warm-Up

Day 69

1. Evaluate:  $\frac{1}{2}(7 + 3) + 9$   
(SOL 7.2)

\_\_\_\_\_

2. Evaluate:  $\frac{3}{4}(3 + 5) \times 3 - 4$   
(SOL 7.2)

\_\_\_\_\_

## Spiral Review

STUDENTS WHO READ GARFIELD			
Age Group	Tally	Frequency	Cumulative Frequency
7-10	II	7	7
11-14	II	7	14 ← 7 + 7
15-18		3	17 ← 14 + 3
19-22		3	20 ← 17 + 3

3. Using the table above, which interval had the smallest number of students who read Garfield?  
(SOL 7.17a)

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# 7th Grade Daily Warm-Up

Day 70

## Spiral Review

1. Describe how to change a percent to a fraction in simplest terms. Give 1 example and work it out. (SOL 7.1)

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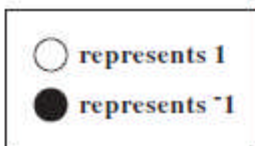
Example:

2. Evaluate the expression if  $a = 3$  and  $b = 7$ . (SOL 7.2)

$$4(b-2) + 3$$

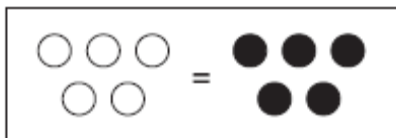
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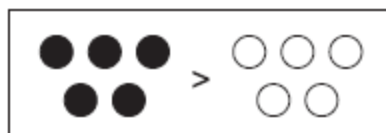


Based on the representations shown, which of the following is true? (SOL 7.5)

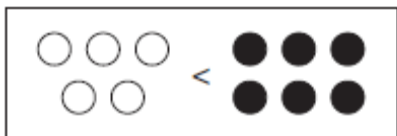
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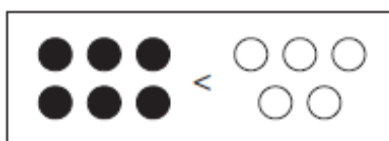
G



H



J





# 7th Grade Daily Warm-Up

**Day 71**

## Spiral Review

**1. The temperature at 9 a.m. on Hannah's first day of vacation was  $-7^{\circ}\text{F}$ . By noon, the temperature was  $12^{\circ}\text{F}$ . By how much did the temperature rise?**

(SOL 7.5)

\_\_\_\_\_

**2. Which list of numbers is ordered from least to greatest?**

(SOL 7.1)

A.  $49\%$ ,  $0.38$ ,  $2$ ,  $3\frac{2}{3}$

B.  $2$ ,  $3\frac{2}{3}$ ,  $49\%$ ,  $0.38$

C.  $3\frac{2}{3}$ ,  $2$ ,  $0.38$ ,  $49\%$

D.  $0.38$ ,  $49\%$ ,  $2$ ,  $3\frac{2}{3}$ ,

**3. Jacki scored 12 goals in 16 attempts in soccer this season. What percent of her attempts were scored as goals?**

(SOL 7.1)

\_\_\_\_\_



# 7th Grade Daily Warm-Up

## Day 72

1. Ron has three quarters, four dimes, two nickels, and one penny in his pocket. If he reaches into his pocket and randomly pulls out one coin, what is the probability that the coin will be a quarter?  
(SOL 7.14)

2. Explain the difference between theoretical and experimental probability.  
(SOL 7.14)

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## Spiral Review

3. Some of the world's longest snakes and their greatest measured lengths are shown on the table.

WORLD RECORD SNAKE LENGTHS

Snake	Greatest Length Measured (in meters)
African python	9
Anaconda	9
Black mamba	4.3
Boa constrictor	6
Indian python	6.5
Indigo snake	2.6
King cobra	5.6
Reticulated python	9

What is the range, in meters, of the lengths? \_\_\_\_\_





## 7th Grade Daily Warm-Up

**Day 73**

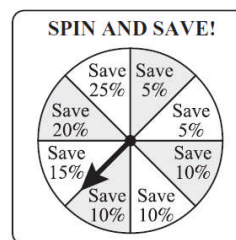
1. Use the spinner to name the color that fits each of the following statements. (SOL 7.14)

- a. The spinner will land on this color about as often as it lands on yellow.

\_\_\_\_\_

b.

2. Each customer at the local hardware store gets one chance to spin the arrow on the spinner shown below. The customer then receives the discount displayed on the section where the spinner arrow lands.



- If the sections on the spinner are congruent, what is the probability that the spinner arrow will land on a section for a 10% or a 15% discount? (SOL 7.14)

\_\_\_\_\_

# Spiral Review

3. When making a box-and-whisker plot of the following set of data, what does the number 306 represent?

305, 299, 286, 305, 311, 302, 307, 300, 303

\_\_\_\_\_



## 7th Grade Daily Warm-Up

**Day 74**

1. A quarter is flipped 50 times.  
What is the number of times tails is  
expected to come up? (SOL 7.14)

\_\_\_\_\_

b. Explain or show how you arrived  
at your answer.

2. While making random draws  
from a deck of five cards num-  
bered 1, 2, 3, 4, and 5, if you  
draw a card 30 times, putting the  
card back and mixing the deck  
after each draw, about how  
many times would you expect to  
draw the number 5? (SOL 7.14)

\_\_\_\_\_

# Spiral Review

3. What is the value of the expression  $2(3^3 - 6) + 2$  ?

\_\_\_\_\_



## 7th Grade Daily Warm-Up

**Day 75**

1. When rolling a number cube, Terri hoped to roll a two. Which of the following experimental probabilities is closest to the theoretical probability? (SOL 7.14)

- A  $3/55$
- B  $4/23$
- C  $5/12$
- D  $18/21$

2. In 6 spins, the spinner lands on blue 2 times. Explain how this is possible if the spinner should only land on blue 1 out of every 6 times. (SOL 7.14)

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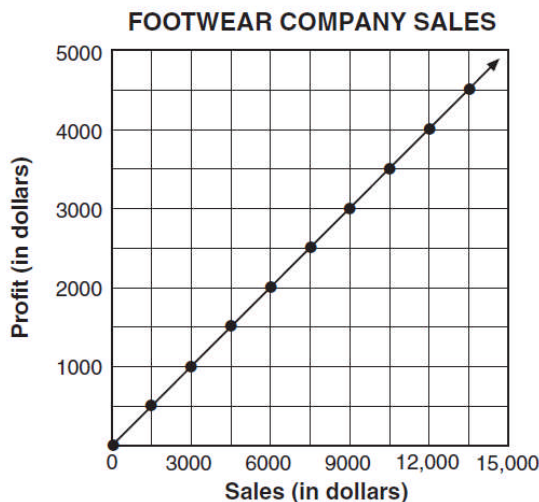
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# Spiral Review

3. The Footwear Company used the following graph to relate sales to profit.



What amount of sales, in dollars, generated \$3500 in profits? \_\_\_\_\_



## 7th Grade Daily Warm-Up

**Day 76**

1. Robyn rolled a number cube 60 times in an experiment. Her results are shown in this table.

Number Rolled	1	2	3	4	5	6
Number of Times	8	5	9	12	11	15

What was the experimental probability of rolling a 6?

(SOL 7.14)

\_\_\_\_\_

# Spiral Review

2. The number of seats in four football stadiums is shown in the table below.

STADIUM SEATS

Stadium	Number of Seats
Anchors	$4 \times 10^3$
Barnabal	$4 \times 10^4$
Carver	$5 \times 10^4$
Daton	$6 \times 10^3$

Which stadium has the greatest number of seats? \_\_\_\_\_



## **7th Grade Daily Warm-Up**

**Day 77**

1. At an ice cream shop, a sundae is made with 1 kind of ice cream, 1 topping, and 1 kind of nut. You can choose from 3 kinds of ice cream, 3 kinds of toppings, and 2 kinds of nuts. Draw a tree diagram showing all the possible kinds of ice cream sundaes you could order.

(SOL 7.15)

2. At a cafeteria, Vance can choose from 3 kinds of sandwiches, 5 kinds of vegetables, and 3 kinds of desserts. Make a tree diagram showing all the possible outcomes.

(SOL 7.15)

# **Spiral Review**

3. On his mathematics test, Carlos had 20 correct out of 25 problems. Which of the following is NOT another way of expressing 20 out of 25 ?

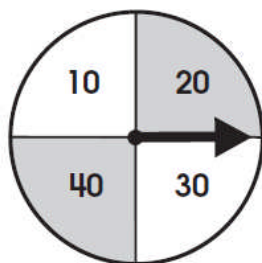
- A  $\frac{4}{5}$
- B 0.80
- C 80%
- D  $\frac{5}{4}$



## 7th Grade Daily Warm-Up

**Day 78**

1. A spinner and a number cube are used to play a game. The sides of the cube are numbered 1 through 6.



Draw a tree diagram showing all the possible outcomes of spinning the spinner and rolling the die.

(SOL 7.15)

# Spiral Review

2. The low temperatures for 6 consecutive days in a Washington city were  $9^\circ$ ,  $3^\circ$ ,  $4^\circ$ ,  $16^\circ$ ,  $11^\circ$ , and  $5^\circ$ . What would the low temperature have to be on the seventh day to have a mean low temperature of  $9^\circ$  for the week?

- A  $8^\circ$
- B  $9^\circ$
- C  $15^\circ$
- D  $20^\circ$



## 7th Grade Daily Warm-Up

**Day 79**

1. Sara is making 2-digit secret passwords for the members of her club. The first digit is a letter of the alphabet and the second digit is a number from 0 through 9. How many possible passwords can Sara make? (SOL 7.15)

\_\_\_\_\_

2. A soccer team's kit consists of 2 jerseys, 2 pair of shorts, and 2 pair of socks. Use the Fundamental Counting Principle to find the total number of outcomes. (SOL 7.15)

\_\_\_\_\_

# Spiral Review

3. Mrs. Joyner bought a tent for her camping trip. The tent cost \$117.00, and a 7% sales tax was added at the register. Mrs. Joyner gave the cashier seven \$20 bills. How much change should she have received?

\_\_\_\_\_



## 7th Grade Daily Warm-Up

Day 80

1. The cafeteria is serving french toast, cereal, and fruit. If a student may choose any two of those items plus either grape juice or orange juice, how many different breakfast combinations are possible? (SOL 7.15)

\_\_\_\_\_

2. Hector has 3 shirts, 3 pairs of shorts, and 2 pairs of shoes in his locker for gym class. How many different outfits consisting of 1 shirt, 1 pair of shorts, and 1 pair of shoes can he make? (SOL 7.15)

\_\_\_\_\_

# Spiral Review

3. The brightest star in the Milky Way galaxy, Pistol, was discovered in 1997. Pistol is ten million times brighter than the Sun.

What is the *exponent* associated with base 10 when ten million is written in scientific notation?

\_\_\_\_\_





# 7th Grade Daily Warm-Up

Day 81

## Spiral Review

1. Each weekday for two weeks, Ms. Rubio counted the number of cars parked at noon in a city parking lot. She recorded her results in the table below.

NUMBER OF CARS PARKED AT NOON

	Mon.	Tues.	Wed.	Thurs.	Fri.
Week 1	150	167	161	156	168
Week 2	156	146	142	166	163

Which stem-and-leaf plot below includes all the correct numbers of cars Ms. Rubio recorded in her table?

NUMBER OF CARS PARKED

**A**

Stem	Leaf
14	2 6
15	2 3 6
16	6 6 7 8 8

KEY
13 8 = 138

NUMBER OF CARS PARKED

**B**

Stem	Leaf
14	2 6 6
15	0 6
16	1 3 6 7 8

KEY
13 8 = 138

NUMBER OF CARS PARKED

**C**

Stem	Leaf
14	2 6
15	0 6 6
16	1 3 6 7 8

KEY
13 8 = 138

NUMBER OF CARS PARKED

**D**

Stem	Leaf
14	2 6
15	6 6
16	1 3 6 7 8

KEY
13 8 = 138

2. Desert, tundra, ice, and mountains make up 24% of the Earth's surface. Write a fraction that is equivalent to 24%.



## 7th Grade Daily Warm-Up

**Day 82**

# Spiral Review

1. Which pair of operations will make the equation below true when inserted into the blank spaces in the order shown?

$$2 \frac{3}{10} \quad \underline{\hspace{1cm}} \quad 1.5 \quad \underline{\hspace{1cm}} \quad 2 = 1.8$$

- A - and +
- B  $\times$  and +
- C + and -
- D  $\times$  and -

2. ABC Toys monitored the number of orders received per day from its website. The number of orders received on 8 different business days last year was recorded in the table below.

Date	Number of Orders
January 6	126
February 12	218
April 4	223
June 18	89
July 29	113
August 15	192
September 18	285
November 30	99

What was the median number of orders received on those dates? \_\_\_\_\_



# 7th Grade Daily Warm-Up

Day 83

## Spiral Review

1. Mrs. Yancey used the expression  $4x + 5$  to calculate the number of chairs to order for a workroom, where  $x$  is the number of tables in the workroom.

How many chairs should she order for a workroom with 12 tables?

---

2. Amanda must use the order of operations to evaluate the following expression.

$$24/3 + (16 - 3 \times 2)$$

What should be the last step Cathleen performs if she uses the correct order of operations?

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3. The Triassic Period of geological history occurred between 208 million and 245 million years ago. What is 245 million written in scientific notation?

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## 7th Grade Daily Warm-Up

**Day 84**

1. Define *equation*. (SOL 7.21)

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2. Write an example of an *expression*. (SOL 7.21)

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# Spiral Review

3. Janet's grades on her first four science quizzes are 82, 89, 82, and 92. What grade on the fifth quiz will give Janet a quiz average of exactly 88?

- A 97
- B 95
- C 93
- D 90



## 7th Grade Daily Warm-Up

Day 85

1. Explain the difference between an *equation* and an *inequality*.

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2.  $6z > 36$

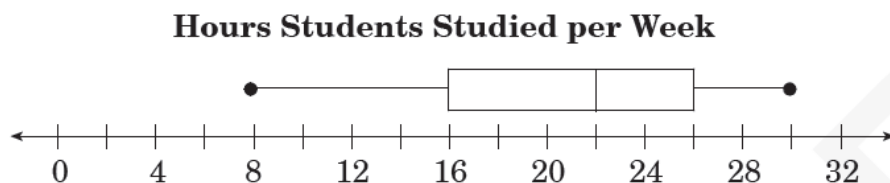
(SOL 7.21)

The above is —

- F an expression
- G an equation
- H an inequality
- J a variable

# Spiral Review

3. According to this box-and-whisker plot, what percent of students study less than 16 hours per week?



- A 50%
- C 16%

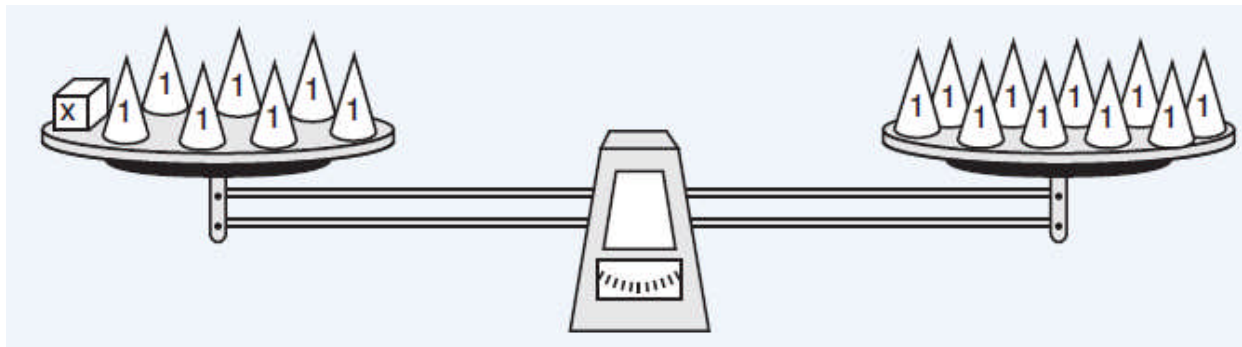
- B 25%
- D 6%



## 7th Grade Daily Warm-Up

Day 86

1. The scale shown is balanced. Use the model shown to find the value of  $x$ . (SOL 7.22a)



# Spiral Review

2. One morning, the temperature was  $5^{\circ}$  below zero. By noon, the temperature rose  $20^{\circ}$  Fahrenheit (F) and then dropped  $8^{\circ}$ F by evening. What was the evening temperature? (SOL 7.5)





## 7th Grade Daily Warm-Up

**Day 87**

1. If  $x - 7 = 36$ , what is the value of  $x$  that makes the equation true? (SOL 7.22a)

2. What value of  $p$  makes the following true?

(SOL 7.22a)

$$p - 4.5 = 2.5$$

# Spiral Review

3. Kim was visiting Busch Gardens and wanted to buy a souvenir. She found a sweatshirt for \$49.95 and it was on sale for 40% off. What was the sale price of the sweater?

(SOL 7.4b)



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## 7th Grade Daily Warm-Up

**Day 88**

1. Ginger spent \$24 at the fair, which was three times the amount she spent last year at the fair. How much money did Ginger spend last year at the fair?

(SOL 7.22a)

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2. Joel ran a distance of 5 miles in 62 1/2 minutes. He can find  $s$ , his mean time per mile by solving the equation shown below.

(SOL 7.22a)

$$5s = 62.5$$

What is the value of  $s$ ?

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# Spiral Review

3. When making a box-and-whisker plot of the following set of data, what does the number 303 represent?

305, 299, 286, 305, 311, 302, 307, 300, 303

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## 7th Grade Daily Warm-Up

Day 89

1. What is the solution to the number sentence?

(SOL 7.22a)

$$\frac{c}{10} = 40$$

2. What is the value of  $d$  that makes the equation true?

(SOL 7.22)a

$$60 = \frac{x}{20}$$

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# Spiral Review

3. Which list arranges the numbers from least to greatest?

(SOL 7.1)

A  $27 \frac{4}{7}$ , 27.93, 27.3%,  $2.78 \times 10^2$

B  $2.78 \times 10^2$ , 27.3%,  $27 \frac{4}{7}$ , 27.93

C 27.3%,  $27 \frac{4}{7}$ , 27.93,  $2.78 \times 10^2$

D 27.93,  $2.78 \times 10^2$ ,  $27 \frac{4}{7}$ , 27.3%



# 7th Grade Daily Warm-Up

Day 90

1. The table below shows the number of the different kinds of stringed instruments used in the City Youth Orchestra. (SOL 7.22a)

CITY YOUTH ORCHESTRA  
STRINGED INSTRUMENTS

Instrument	Number in Orchestra
Cello	6
Bass	$n$
Harp	1
Viola	12
Violin	30

The number of violins is greater than the total number of violas and basses. Which of the following inequalities can be used to represent the number of basses,  $n$  ?

- A  $30 < n + 12$       B  $n - 30 > 12$       C  $12 - n < 30$       D  $30 > 12 + n$

## Spiral Review

2. Explain how you would write 0.24 as a fraction.

(SOL 7.1)

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Write 0.24 as a fraction: \_\_\_\_\_



## 7th Grade Daily Warm-Up

Day 91

1. Which represents all the values for  $u$  that make the following true? (SOL 7.22)

$$u + 5 > 7$$

- A  $u > 2$
- B  $u > 12$
- C  $u < 2$
- D  $u < 12$

2. What is a value for  $h$  that makes the following true? (SOL 7.22)

$$-4h \geq 24$$

Explain why there can be more than one answer to this question.

# Spiral Review

3. Express  $\frac{8}{21}$  as a percent. Round to the nearest tenth. (SOL 7.1)

Explain how you arrived at your answer.



## 7th Grade Daily Warm-Up

**Day 92**

1. Mae raised \$80 by selling boxes of cookies. Let  $b$  represent the number of boxes of cookies sold. Each box cost \$2.50. Which equation should be used to determine how many boxes of cookies Mae sold? (SOL 7.22b)

- A  $2.50 + b = 80$
- B  $b - 2.50 = 80$
- C  $b \cdot 2.50 = 80$
- D  $2.50b = 80$

2. A large box contains 11 smaller boxes of raisins. The price of the large box is \$2.75. Each of the smaller boxes of raisins costs the same amount. Which could be used to find  $d$ , the price of a smaller box? (SOL 7.22b)

- F  $11d = 2.75$
- G  $d + 11 = 2.75$
- H  $d - 11 = 2.75$
- J  $d \div 11 = 2.75$

# Spiral Review

3. Explain how you find the median after crossing out the set of numbers from high to low and being left with two numbers in the middle.

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## 7th Grade Daily Warm-Up

Day 93

1. Which algebraic equation best describes the total growth ( $T$ ) in height of pine trees over a 3-year period, if  $g$  equals the rate of growth in centimeters per year? (SOL 7.22)

A  $T = 3g$

B  $T = 3 + g$

C  $T = \frac{g}{3}$

D  $T = \frac{3}{g}$

2. Which phrase best represents the following? (SOL 7.22)

$$\frac{n}{5} + 7$$

F Seven added to the quotient of a number and five

G Seven added to the quotient of five and a number

H The sum of seven and five divided by a number

J Five divided by a number added to seven

# Spiral Review

3. Tom bought 4 muffins that cost \$1.79 each and a gallon of milk that cost \$2.15. What was the total bill before tax?

(SOL 7.4a)

